

VOLUME 47 — January-December, 1966, Inclusive

SUBJECT INDEX

A

- ABDUCTION SPLINT, dynamic for shoulder, 310
- ABRAMSON, A. S., 744
- ACADEMY, American, of Physical Medicine and Rehabilitation
 - ... Board of Governors, 375
 - ... Nominating Committee Report, 363
 - ... President, 1966-67, 633
 - ... Proceedings, 27th Assembly, 97-214
 - ... Program, 28th Assembly, 527
 - ... Program (Preliminary) 28th Assembly, 364, 471
- ACROMOTOR MEDIAN NEUROPATHY (Pseudo Carpal Tunnel Syndrome), 306
- ACTIVITY in paraplegic patients, caloric costs, 427
- ADJUSTMENT, psychologic, of patients with myelopathy, 72
 - ... sexual, identification and attitudes of patients with myelopathy, 245
- ADRENAL and gonadal steroids, effect on skeletal muscles, 132
- AFTERMATH, a follow-up study of patients with myelopathy, 793
- AGE, comparison of sensory and motor nerve conduction velocities in relation to, 286
- AIDS, MECHANICAL, and braces, reappraised in patients with spinal cord dysfunction, 393
- AMERICAN MEDICAL ASSOCIATION scientific exhibits—Medicine in Review, 697
- AMERICAN medical colleges, study of undergraduate teaching programs in rehabilitation in, 227
- AMPUTATION stumps, and extremities, contour-tracer, 312
- ANKLE clonus, sustained, effect of intramuscular diazepam, 781
- ANKYLOSING SPONDYLITIS, therapeutic recreation, 77
- ANTERIOR CERVICAL MUSCLES, role in production of neck pain, 603
- APPLICATION, clinical, of genetic variations in muscular enzyme systems, 147
 - ... research, of myoelectric control, 190
- ARM, AND HAND, localization of ulnar nerve compression, 325
- ARTHRITIS, RHEUMATOID, effect of isometric exercise on the quadriceps muscle, 737
 - ... electromyographic kinesiology of hand, 699
 - ... splinting the hand, 262
- ASSISTED COUGH, evaluation in quadriparetic patients, 705
- AUDIO-ANALGESIA, for control of pain during electromyography, 771
- AUTONOMIC and somatic responses to bladder filling in patients with complete transverse myelopathy, 450

B

- BACK exercises for paraplegic patients, electromyographic analysis, 730
 - ... low, syndrome, and sexual impotence, 715
- BIOELECTRIC upper extremity prosthesis developed in the Soviet Union, 232
- BIOPSY muscle in neuromuscular disorder, correlation with electromyography, 653
 - ... in histologic diagnosis of neuromuscular diseases, 99
 - ... muscle, system for review of findings, 51
- BLADDER, somatic and autonomic responses to filling in patients with complete transverse myelopathy, 450
- BLOCK of motor points with phenol in management of muscular hypertonia, 659
- BOOK REVIEWS,
 - Adams: Current Practice in Orthopaedic Surgery, Vol 2, C. V. Mosby Co., 1964, 96
 - A.H.A., A.P.A., N.A.S.W.: Meeting the Social Needs of Long-Term Patients, A.H.A., 1965, 274
 - Armstrong: Lumbar Disc Lesions. Pathogenesis and Treatment of Low Back Pain and Sciatica, Ed. 3, The Williams & Wilkins Co., 1965, 693
 - Beier and Pliquet: Kompendium der Physik, G. Fischer Verlag, 1965, 274
 - Bell, Davidson, and Scarborough: Textbook of Physiology and Biochemistry, Ed. 6, The Williams & Wilkins Co., 1965, 224
 - Berges, Lezine, and Parmelee: Clinics in Developmental Medicine, No. 18. The Imitation of Gestures, Wm. Heinemann Medical Books Ltd., 1965, 222
 - Bialonski: Schriftenreihe der Medizinisch Pharmazeutischen Studiengesellschaft E. V. 2/3, Umschau Verlag, 1965, 497
 - Carlsten, Grimby, and Jokl: The Circulatory Response to Muscular Exercise in Man, Charles C Thomas Co., 1966, 645
 - Carter and Gustafson: Drugs in Neurospastic Disorders, Charles C Thomas Co., 1965, 222
 - Case: Recreation for Blind Adults, Charles C Thomas Co., 1965, 643
 - Coates and Meirrowsky: Neurological Surgery of Trauma, U.S. Government Printing Office, 1965, 223
 - Conley: The Economics of Vocational Rehabilitation, Johns Hopkins Press, 1965, 373
 - DePalma: Clinical Orthopaedics and Related Research, No. 39, J. B. Lippincott Co., 1965, 95
 - DePalma: Clinical Orthopaedics and Related Research, No. 40, J. B. Lippincott Co., 1965, 43

VOLUME 47 — January-December, 1966, Inclusive

SUBJECT INDEX

A

- ABDUCTION SPLINT, dynamic for shoulder, 310
- ABRAMSON, A. S., 744
- ACADEMY, American, of Physical Medicine and Rehabilitation
 - ... Board of Governors, 375
 - ... Nominating Committee Report, 363
 - ... President, 1966-67, 633
 - ... Proceedings, 27th Assembly, 97-214
 - ... Program, 28th Assembly, 527
 - ... Program (Preliminary) 28th Assembly, 364, 471
- ACROMOTOR MEDIAN NEUROPATHY (Pseudo Carpal Tunnel Syndrome), 306
- ACTIVITY in paraplegic patients, caloric costs, 427
- ADJUSTMENT, psychologic, of patients with myelopathy, 72
 - ... sexual, identification and attitudes of patients with myelopathy, 245
- ADRENAL and gonadal steroids, effect on skeletal muscles, 132
- AFTERMATH, a follow-up study of patients with myelopathy, 793
- AGE, comparison of sensory and motor nerve conduction velocities in relation to, 286
- AIDS, MECHANICAL, and braces, reappraised in patients with spinal cord dysfunction, 393
- AMERICAN MEDICAL ASSOCIATION scientific exhibits—Medicine in Review, 697
- AMERICAN medical colleges, study of undergraduate teaching programs in rehabilitation in, 227
- AMPUTATION stumps, and extremities, contour-tracer, 312
- ANKLE clonus, sustained, effect of intramuscular diazepam, 781
- ANKYLOSING SPONDYLITIS, therapeutic recreation, 77
- ANTERIOR CERVICAL MUSCLES, role in production of neck pain, 603
- APPLICATION, clinical, of genetic variations in muscular enzyme systems, 147
 - ... research, of myoelectric control, 190
- ARM, AND HAND, localization of ulnar nerve compression, 325
- ARTHRITIS, RHEUMATOID, effect of isometric exercise on the quadriceps muscle, 737
 - ... electromyographic kinesiology of hand, 699
 - ... splinting the hand, 262
- ASSISTED COUGH, evaluation in quadriparetic patients, 705
- AUDIO-ANALGESIA, for control of pain during electromyography, 771
- AUTONOMIC and somatic responses to bladder filling in patients with complete transverse myelopathy, 450

B

- BACK exercises for paraplegic patients, electromyographic analysis, 730
 - ... low, syndrome, and sexual impotence, 715
- BIOELECTRIC upper extremity prosthesis developed in the Soviet Union, 232
- BIOPSY muscle in neuromuscular disorder, correlation with electromyography, 653
 - ... in histologic diagnosis of neuromuscular diseases, 99
 - ... muscle, system for review of findings, 51
- BLADDER, somatic and autonomic responses to filling in patients with complete transverse myelopathy, 450
- BLOCK of motor points with phenol in management of muscular hypertonia, 659
- BOOK REVIEWS,
 - Adams: Current Practice in Orthopaedic Surgery, Vol 2, C. V. Mosby Co., 1964, 96
 - A.H.A., A.P.A., N.A.S.W.: Meeting the Social Needs of Long-Term Patients, A.H.A., 1965, 274
 - Armstrong: Lumbar Disc Lesions. Pathogenesis and Treatment of Low Back Pain and Sciatica, Ed. 3, The Williams & Wilkins Co., 1965, 693
 - Beier and Pliquet: Kompendium der Physik, G. Fischer Verlag, 1965, 274
 - Bell, Davidson, and Scarborough: Textbook of Physiology and Biochemistry, Ed. 6, The Williams & Wilkins Co., 1965, 224
 - Berges, Lezine, and Parmelee: Clinics in Developmental Medicine, No. 18. The Imitation of Gestures, Wm. Heinemann Medical Books Ltd., 1965, 222
 - Bialonski: Schriftenreihe der Medizinisch Pharmazeutischen Studiengesellschaft E. V. 2/3, Umschau Verlag, 1965, 497
 - Carlsten, Grimby, and Jokl: The Circulatory Response to Muscular Exercise in Man, Charles C Thomas Co., 1966, 645
 - Carter and Gustafson: Drugs in Neurospastic Disorders, Charles C Thomas Co., 1965, 222
 - Case: Recreation for Blind Adults, Charles C Thomas Co., 1965, 643
 - Coates and Meirrowsky: Neurological Surgery of Trauma, U.S. Government Printing Office, 1965, 223
 - Conley: The Economics of Vocational Rehabilitation, Johns Hopkins Press, 1965, 373
 - DePalma: Clinical Orthopaedics and Related Research, No. 39, J. B. Lippincott Co., 1965, 95
 - DePalma: Clinical Orthopaedics and Related Research, No. 40, J. B. Lippincott Co., 1965, 43

- DePalma: Clinical Orthopaedics and Related Research, No. 41, J. B. Lippincott Co., 1965, 323
- DePalma: Clinical Orthopaedics and Related Research, No. 42, J. B. Lippincott Co., 1965, 323
- Elson: Practical Management of Spinal Cord Injuries for Nurses, The Williams & Wilkins Co., 1966, 646
- Farnsworth: Annual Review of Psychology, Vol. 17, Annual Reviews Inc., 1966, 645
- Ford and Schade: Atlas of the Human Brain, American Elsevier Publishing Co., 1966, 646
- Gardner: Pathology of the Connective Tissue Disease, The Williams & Wilkins Co., 1965, 695
- Goldin: Northeastern Studies in Vocational Rehabilitation, Monograph No. 3, 1965, 497
- Goldin, et al: Northeastern Studies in Vocational Rehabilitation, Monograph No. 2, 1965, 273
- Hall, Giese, and Sonnenschein: Annual Review of Physiology, Vol. 28, Annual Reviews Inc., 1966, 644
- Hettinger: Isometrisches Muskeltraining. Intercontinental Medical Book Corporation, 1966, 643
- Hill: Principles of Electronics in Medical Research, Butterworth & Co., 1965, 695
- Hill: Trails and Trials in Physiology, The Williams & Wilkins Co., 1965, 43
- Hollis and Roper: Suspension Therapy in Rehabilitation, The Williams & Wilkins Co., 1965, 498
- International Society for Rehabilitation of the Disabled: First Symposium on Rehabilitation in Africa, I.S.R.D., 1966, 761
- Japanese Society for Rehabilitation of the Disabled: Proceedings of the Third Pan-Pacific Rehabilitation Conference, I.S.R.D., 1965, 644
- Kaplan: Functional and Surgical Anatomy of the Hand, J. B. Lippincott Co., 1965, 695
- Kelly: Ultrasonic Energy. Biological Investigations and Medical Applications, University of Illinois Press, 1965, 596
- Kiernander: Physical Medicine in Paediatrics, Butterworth, Inc., 1965, 596
- Krusen, Kottke, and Ellwood: Handbook of Physical Medicine and Rehabilitation, W. B. Saunders Co., 1965, 95
- Luck: J. M. Ed. The Excitement and Fascination of Science, Annual Reviews Inc., 1965, 324
- MacAusland and Mayo: Orthopedics. A Concise Guide to Clinical Practices, Little Brown & Co., 1965, 324
- May, Waggoner, and Boettke: Homemaking for the Handicapped, Dodd, Mead & Co., 1966, 802
- Milch: Osteotomy at the Upper End of the Femur, The Williams & Wilkins Co., 1965, 497
- Mueller and Christaldi: A Practical Program of Remedial Physical Education, Lea & Febiger, 1966, 761
- Myers: An Orientation to Chronic Disease and Disability, The MacMillan Co., 1965, 373
- O'Morrow: Administration of Activity Therapy Service, Charles C Thomas Co., 1965, 643
- Paris: The Spinal Lesion, Pegasus Press, 1965, 694
- Pomeroy: Recreation for the Physically Handicapped, The Macmillan Co., 1964, 373
- Powell: Orthopaedic Nursing, Ed. 5, The Williams & Wilkins Co., 1965, 762
- Rathke, Kumpf, and Lindemann: Das Spastisch Gelachmte Kind, ein Lehratlas zur Krankheitserkennung und Ubungsbehandlung, Georg Thieme Verlag, 1966, 645
- St. Clair Strange: The Hip, The Williams & Wilkins Co., 1965, 374
- Schade and Ford: Basic Neurology. An Introduction to the Structure and Function of the Nervous System, American Elsevier Publishing Co., 1965, 496
- Schade: The Peripheral Nervous System, American Elsevier Publishing Co., 1966, 693
- Schmidt: The Molecular Basis of Regeneration: Enzymes, University of Illinois Press, 1966, 762
- Schuell: Differential Diagnosis of Aphasia With the Minnesota Text, University of Minnesota Press, 1965, 323
- Scott: Clayton's Electrotherapy and Actinotherapy, The Williams & Wilkins Co., 1966, 696
- Singer and Schade: Progress in Brain Research, Vol. 14. Degeneration Patterns in the Nervous System, American Elsevier Publishing Co., 1965, 273
- Truex and Carpenter: Strong and Elwyn's Human Neuroanatomy, The Williams & Wilkins Co., 1965, 43
- Warner: An Evolution in Understanding of the Problem of Alcohol. A History of Collegiate Idealism, The Christopher Publishing House, 1966, 644
- Wells: Kinesiology: The Scientific Basis of Human Motion. Fourth Edition, W. B. Saunders Co., 1966, 802
- Winsor and Hyman: A Primer of Peripheral Vascular Diseases, Lea & Febiger, 1965, 498
- Young: The Town and Doctor Moore, Simon & Schuster, 1966, 696
- Zweifach, Grant, and McCluskey: The Inflammatory Process, Academic Press, 1965, 496
- BRACES and other mechanical aids in patients with spinal cord dysfunction, reappraised, 393
- BRAKE LEVER, modification for wheelchair, 470

C

- CALORIC COSTS of activity in paraplegic persons, 427
- CARBON DIOXIDE, 5 per cent in air, and postural hypotension in quadriplegi, 422
- CARPAL TUNNEL syndrome, improved splint for, 84
- CEREBRAL DYSFUNCTION, prematurity as etiologic factor, 711
- CERVICAL MUSCLES, anterior, role in production of neck pain, 603
 . . . function of longus colli and longissimus cervicis in man, 665
- CERVICAL RADIOMETRY, 238
- CERVICAL TRACTION, intermittent, effect of duration on vertebral separation, 353
- CHEMICAL ABNORMALITIES associated with muscle disease, 126
- CLINIC setting and home, evaluation of rehabilitation in, 199
- CLINICAL application of genetic variations in muscular enzyme systems, 147
 . . . evaluation for differential diagnosis of neuromuscular disease, 122
- CLONUS, ankle, sustained, effect of intramuscular diazepam on, 781
- COLD, vascular basis for pain, 300
- COLLEGES, american medical, undergraduate teaching programs in rehabilitation medicine, 227
- COMMUNITY STATUS of discharged rehabilitation patients: results of a longitudinal study, 670
- COMPENSATION, Workmen's, medicolegal considerations, 204
- COMPRESSION, ulnar nerve, localization in hand and arm, 325
- CONCEPT of normal muscle tone, hypotonia and hypertonia, 156
- CONGRESS, American, of Physical Medicine and Rehabilitation
 . . . Board of Governors, 375
 . . . Committees, 532
 . . . Gold Key Awards, 1966, Abramson, A.S., 744; Erdman, W. J. II, 746
 . . . Nominating Committee Report, 363
 . . . President, 1966-67, 635
 . . . Program, Forty-fourth Session, 533
 . . . Program (Preliminary) Forty-fourth Session, 364, 474
 . . . Special Award, Rusk, H. A., 748
- CONNECTIVE TISSUE, rationale for prolonged stretching to correct shortening, 345
- CONTOUR-TRACER, for amputation stumps and extremities, 312
- CONTROL, MYOELECTRIC of prostheses, 174
 . . . research applications, 190
- CONTROL of pain during electromyography, 771
- CORD, spinal, (see Spinal Cord)
- CORRECTIONS for p. 142, 368

- COUGH, assisted, evaluation in quadriparetic patients, 705
- COULTER MEMORIAL LECTURE, Rusk, H. A., 3; Inman, V. T., 765
- CROSS-CULTURAL EVALUATION of graduate training in physical medicine and rehabilitation by foreign and United States residents, 621
- CURRENT NEWS IN REVIEW, 34, 89, 215, 266, 314, 366, 488, 637, 688, 752, 797

D

- DACSO, M. M., 633
- DEATH, causes of in civilian patients with spinal cord trauma (and life expectancy and survival rates), 457
- DECUBITAL ULCERS, effective method of preventing, 724
- DEFORMITY of lower extremity, influence of errors of bracing on, 520
- DENERVATED gastrocnemius of rat, passive length-tension relationship of intact muscle, epimysium and tendon compared to normal, 612
- DEVELOPMENT historical of lower extremity prostheses, 275
- DEVICES (see Prosthetics, Orthotics and Devices)
- DIAZEPAM, intramuscular, effect on sustained ankle clonus, 781
- DISCHARGED rehabilitation patients, community status, 670
- DISEASE, muscle chemical abnormalities, 126
 . . . myasthenic and related physiology, 137 (see also correction p. 368)
 . . . neuromuscular, differential diagnosis by clinical evaluation, 122
 . . . neuromuscular, histologic diagnosis, 99
- DOMINANCE OF EYE, role in perception in hemiplegic patients, 67
- DOUBLE SIMULTANEOUS STIMULATION perception in hemiplegic patients, improvement of, 681
- DRIFT, of navel in normals and hemiplegia, 251
- DURABILITY of lower extremity prostheses, 742
- DURATION of intermittent cervical traction, effect on vertebral separation, 353
- DYNAMIC shoulder abduction splint, 310
- DYSFUNCTION, CEREBRAL, prematurity as etiologic factor, 711
 . . . see also Spinal Cord
- DYSTROPHY, MUSCULAR, early, differential patterns of weakness in Duchenne, limb-girdle and facioscapulohumeral types, 499

E

- EARLY MUSCULAR DYSTROPHY, differential patterns of weakness in Duchenne, limb-girdle and facioscapulohumeral types, 499
- EDITORIALS,
 . . . A Lesson from the Greeks, 45
 . . . A.M.A. Scientific Exhibits -Medicine in Review, 697
 . . . Giftie, 763

... Orthotics Vs. Orthotics, 1

... Teaching Institutes for Undergraduate Programs in PM&R, 225

EDUCATION,

... graduate, cross-cultural evaluation by foreign and U.S. residents in PM&R, 621

... undergraduate teaching programs in rehabilitation medicine in American medical colleges, 227

... see Editorial, 225

ELECTRICAL STIMULATION to induce emission of sperm, 436

ELECTROMYOGRAPHY (see also Nerve Conduction Velocities)

... of anterior neck muscles in man, 665

... and back exercises for paraplegics, 730

... control of pain in, 771

... correlation with muscle biopsy, 653

... kinesiology of rheumatoid hand, 699

... and motor root levels in erector spinae, 9

EMBOLISM, pulmonary in patients with spinal cord injuries, 444

EMISSION, induced, of sperm, utilizing electrical stimulation of the seminal vesicles and vas deferens, 436

ENDOCRINE responses to orthostatic hypotension in quadriplegia, 412

ENZYME systems, muscular, genetic variations, 147

EPIMYSIUM, passive length tension relationship, normal and denervated, 612

ERDMAN, W. J., II, 746

ERRORS IN BRACING, influence on deformity of lower extremity, 520

ETIOLOGIC ROLE of prematurity in cerebral dysfunction, 711

EXERCISE,

... isometric of quadriceps in rheumatoid arthritis, 737

... isometric and isotonic, and joint motion, 24

... lesson from the Greeks, 45

EXPECTANCY, LIFE, survival rates and causes of death in civilian patients with spinal cord trauma, 457

EXTENSION, HIP, goniometer adaptation, 255

EXTREMITIES,

... contour-tracer, 312

... lower, deformity and bracing errors, 520

... lower, prostheses, durability, 742

... lower prostheses, history of, 275

... upper, prosthesis, bioelectric, Soviet, 232

... upper, prosthesis, external power, 182

EYE, dominance, role in perception in hemiplegic patients, 67

F

FOLLOW-UP STUDY of patients with myelopathy, 793

... reappraisal of braces and mechanical aids, 393

FOREIGN and U.S. residents, cross-cultural evaluation of graduate training in PM&R, 621

FUNCTION of longus colli and longissimus cervicis muscles in man, 665

... renal in patients with spinal cord injuries, 406

FUNCTIONAL INDEPENDENCE, in quadriplegics, 378

G

GASTROCNEMIUS, rat, normal and denervated, passive length-tension relationships of intact muscle, epimysium and tendon, 612

GENETIC VARIATIONS in muscular enzyme systems: review of research and its clinical applications, 147

GONADAL and adrenal steroids, effect on skeletal muscle, 132

GONIOMETER adaptation for measuring hip extension, 255

GRADUATE TRAINING in PM&R, cross-cultural evaluation, 621

GRASPING MOUTHPICK, 31

GREEKS, a lesson from the, 45

H

HAND and arm, localization of ulnar nerve compression, 325

... rheumatoid, electromyographic kinesiology, 699

... rheumatoid, splinting, 262

HEMIPLEGIA,

... double simultaneous stimulation, 681

... eye dominance role in perception, 67

... drift of navel, 251

... oral and pantomime instructions, 676

HIP extension, goniometer for, 255

... limitation, bilateral, female urinal for, 87

HISTOLOGIC DIAGNOSIS, of neuromuscular diseases: a review of 79 biopsies, 99

HISTORICAL development of lower extremity prostheses, 275

HOME a clinic setting, evaluation of rehabilitation, problems in methodology, 199

HOT PACK, infrared and microwave applications, temperature distributions in human thigh, 291

HYPERTONIA, hypotonia and normal muscle tone, 156

... muscular, management with motor point block with phenol, 659

HYPOTENSION orthostatic, endocrine response in quadriplegia, 412

... postural, effect of inhalation of 5 per cent carbon dioxide in quadriplegia, 422

HYPOTERMIA local, of the spinal cord for relief of spasticity and rigidity, 169

I

IDENTIFICATION, sexual adjustment and attitudes of patients with myelopathy, 245

IMPOTENCE sexual, in men having low-back syndrome, 715

INDEPENDENCE functional, of quadriplegic patients, 378

INDEX of Archives of Physical Medicine & Rehabilitation, Vol. 47, 1966

... advertisers, 814

... authors, 812

... pagination, 811

... subject, 804

INDUCED EMISSION of sperm utilizing electrical stimulation of the seminal vesicles and vas deferens, 436

INFLAMED PROSTATE, phantom-limb sensations evoked by palpation of, 360

INFRARED, microwave and hot pack applications, temperature distributions in the human thigh, 291

INSTITUTES teaching, for undergraduate programs in physical medicine & rehabilitation, 225

INTERMITTENT CERVICAL TRACTION, effect of duration on vertebral separation, 353

ISOMETRIC exercise, effect on quadriceps muscle in patients with rheumatoid arthritis, 737

ISOMETRIC AND ISOTONIC exercise, effect on joint motion, 24

J

JOINT MOTION, effect of isometric and isotonic exercise, 24

K

KINESIOLOGY, electromyographic, of the rheumatoid hand, 699

KOEPKE, G. H., 215

L

LABUNTUR et IMPUTANTUR, 47

LENGTH-TENSION RELATIONSHIP, passive, of intact muscle, epimysium and tendon in normal and denervated gastrocnemius of the rat, 612

LESSON from the Greeks, 45

LEVER, wheel chair brake modification, 470

LIFE EXPECTANCY, survival rates and causes of death in civilian patients with spinal cord trauma, 457

LOCALIZATION of ulnar nerve compression in the hand and arm: an improved method of electroneuromyography, 325

LONGUS COLLI AND LONGISSIMUS CERVICIS, function in man, 665

LOW BACK SYNDROME, sexual impotence in men, 715

LOWER EXTREMITY,

... influence of errors in bracing a deformity, 520

... prostheses, development, 275

... prostheses, durability, 742

LOWMAN, E. W., 635

M

MECHANICAL AIDS, and braces in patients with spinal cord dysfunction, reappraisal, 393

MEDIAN ACROMOTOR NEUROPATHY (pseudo carpal tunnel syndrome) report of a case, 306

MEDICINE, rehabilitation, undergraduate teaching programs in American medical colleges, 227

MEDICOLEGAL considerations in Workmen's Compensation, 204

MICROWAVE, infrared and hot pack applications, temperature distributions in the human thigh, 291

MOTION OF JOINTS, effect of isometric and isotonic exercise, 24

MOTOR POINT BLOCK with phenol in hypertonia, 659

MOUTHSTICK, grasping, 31

MULTIPLE SCLEROSIS, physical and intellectual changes, 56

MUSCLE BIOPSY,

... system for review, 51

... correlation with electromyography, 653

MUSCLE DISEASES,

... chemical abnormalities, 126

... clinical evaluation, 122

... denervated length-tensions, 612

... early dystrophies, 499

... electromyography and biopsy, 653

... enzyme systems, 147

... histologic diagnosis, 99

MUSCLES, anterior cervical in production of neck pain, 603

MUSCLES, longus colli and longissimus cervicis in man, 665

MUSCLES, SKELETAL, effect of adrenal and gonadal steroids, 132

MUSCLE TONE, hypotonia and hypertonia, 156

MYASTHENIC DISEASES and related physiology, 137 (see correction page 368)

MYELOPATHY (see Spinal Cord Disorders)

MYOELECTRIC CONTROL,

... of prostheses, 174

... research applications, 190

MYOPATHIES, rheobase studies, 504

N

NAVEL "DRIFT" in normal and hemiplegic subjects, 251

NECK PAIN, role of anterior cervical muscles, 603

NERVE CONDUCTION VELOCITIES,
 . . . motor, in chronic renal insufficiency, 647
 . . . motor, distal radial, 12
 . . . motor, proximal and distal radial, 597
 . . . motor, ulnar localization, 325
 . . . motor, ulnar, physical agents, 787
 . . . sensory and motor, related to age, 286
 . . . sensory and motor, tarsal tunnel syndrome, 776
 . . . sensory and motor, ulnar and median, 511

NEUROMUSCULAR DISEASE,
 . . . clinical evaluation, 122
 . . . electrography and muscle biopsy, 653
 . . . histologic diagnosis, 99

NEUROPATHY, median acromotor, 306

O

OBITUARIES,
 Birtcher, C., 34
 Ghiora, A., 319
 King, R. R., Jr., 688
 Piersol, G. M., 750
 Schwartz, R. P., 218

OFFICERS AND COMMITTEES, American Academy of Physical Medicine & Rehabilitation, 526
 . . . American Congress of Physical Medicine & Rehabilitation, 532

ORAL and pantomime instructions for hemiplegic patients, 676

ORTHETICS Vs. orthotics, 1
 . . . letter, 362
 . . . (see also Prosthetics, Orthotics and Devices)

ORTHOSTATIC HYPOTENSION in quadriplegia,
 . . . effect of carbon dioxide inhalation, 422
 . . . endocrine responses, 412

ORTHOTICS (see Orthotics)

OSCILLOMETRY, plethysmyography and skin thermometry, correlations, 340

P

PACK, HOT, infrared and microwave applications, temperature distributions in human thigh, 291

PAIN,
 . . . control during electromyography, 771
 . . . due to cold, vascular basis, 300
 . . . of neck, role of anterior cervical muscles, 603

PASSIVE LENGTH-TENSION relationship of intact muscle, epimysium, and tendon in normal and denervated gastrocnemius of the rat, 612

PERCEPTION in hemiplegic,
 . . . double simultaneous stimulation, 681
 . . . role of eye dominance, 67

PHANTOM-LIMB sensations from inflamed prostate, 360

PHENOL motor point block in the management of muscular hypertonia, 659

PHYSIATRIST and specialization, 765

PHYSICAL AGENTS, effect on motor conduction velocity of the ulnar nerve, 787

PHYSICAL and intellectual changes in multiple sclerosis, 56

PHYSICAL MEDICINE AND REHABILITATION,
 . . . graduate training, cross-cultural evaluation, 621
 . . . undergraduate training, teaching institutes, 225
 . . . undergraduate training, teaching programs, 227

PIERSOL, G. M., In Memoriam, 750

PLETHYSMOGRAPHY, oscillometry and skin thermometry correlations, 340

POSTURAL HYPOTENSION in quadriplegia,
 . . . endocrine responses, 412
 . . . inhalation of carbon dioxide, 422

PREMATURITY as an etiologic factor in cerebral dysfunction, 711

PROCEEDINGS of 27th assembly of American Academy of Physical Medicine & Rehabilitation, 97-214

PROGRAM,
 . . . 28th Assembly of AAPM&R, 527
 . . . (Preliminary, 364, 471)
 . . . 44th Session of ACPM&R, 533
 . . . (Preliminary, 364, 474)

PROLONGED STRETCHING, for correction of shortening of connective tissue, rationale, 345

PROSTATE, inflamed, phantom-limb sensations evoked by palpation of, 360

PROSTHESES, lower extremity,
 . . . development, historical, 275
 . . . durability, 742
 upper extremity,
 . . . bioelectric, Soviet Union, 232
 . . . external power, 182
 . . . myoelectric control, 174

PROSTHETICS, ORTHETICS AND DEVICES,
 . . . bracing errors, 520
 . . . brake lever, wheelchair, 470
 . . . contour-tracer, 312
 . . . durability of lower extremity prostheses, 742
 . . . goniometer for hip extension, 255
 . . . grasping mouthstick, 31
 . . . splint for carpal tunnel, 84
 . . . splint for rheumatoid hand, 262
 . . . splint, shoulder abduction, 310
 . . . Soviet bioelectric prosthesis, 232
 . . . urinal for female with hip limitation, 87

PSEUDO CARPAL TUNNEL syndrome (median acromotor neuropathy) case report, 306

PSYCHOLOGIC ADJUSTMENT of patients with myelopathy, 72

PULMONARY EMBOLISM in patients with spinal cord lesions, 444

Q

QUADRICEPS, isometric exercise in rheumatoid arthritis, 737

QUADRIPLEGIA, assisted cough, 705
 . . . functional independence, 378
 . . . orthostatic hypotension, carbon dioxide inhalation, 422
 . . . orthostatic hypotension, endocrine responses, 412

R

RADIAL NERVE, distal, motor conduction velocity, 12
 . . . proximal and distal, motor conduction velocity, 597

RADIOMETRY, cervical, 238

RECREATION, therapeutic for patient with ankylosing spondylitis, 77

REFLEX, sweating, in patients with paraplegia, 464

REHABILITATION,

. . . aftermath, follow-up of myelopathy, 793
 . . . community status after discharge, 670
 . . . graduate training, cross-cultural evaluation, 621
 . . . home or clinic setting, 199
 . . . teaching institutes, 225
 . . . teaching programs, 227

RENAL FUNCTION in patients with spinal cord injuries, 406

RENAL INSUFFICIENCY, chronic, motor neuron conduction velocity, 647

RESEARCH APPLICATIONS of myoelectric control, 190

RESPONSES endocrine to orthostatic hypotension in quadriplegia, 412
 . . . to bladder filling, somatic and autonomic, in complete transverse myelopathy, 450

RESTORATION OF FUNCTION in upper extremities by external power, 182

RHEOBASE studies in myopathies, 504

RHEUMATOID ARTHRITIS, isometric quadriceps exercise, 737
 . . . electromyographic kinesiology of hand, 699
 . . . hand splint, 262

RIGIDITY and spasticity, local hypothermia of spinal cord for relief of, 169

ROLE of anterior cervical muscles in production of neck pain, 603
 . . . of eye dominance in perception in hemiplegic, 67

ROOT, motor levels in erector spinae muscles, electromyographic, 9

RUSK, H. A., 748

S

SCIENTIFIC EXHIBITS, A.M.A.—Medicine in Review, 697

SCLEROSIS, MULTIPLE, physical and intellectual changes, 56

SELECTIVE HEATING effects of ultrasound in human beings, 331

SENSATION phantom-limb, from palpation of inflamed prostate, 360

SENSORY AND MOTOR conduction velocities,
 . . . relation to age, 286
 . . . methods of determination, 17
 . . . ulnar and median nerves, 511

SEPARATION, VERTEBRAL, during intermittent cervical traction, 353

SETTING for rehabilitation, home or clinic, 199

SEXUAL adjustment, identification and attitudes of patients with myelopathy, 245
 . . . impotence in men having low-back syndrome, 715

SHORTENING OF CONNECTIVE TISSUE, rationale for prolonged stretching, 345

SKELETAL MUSCLES, effect of adrenal and gonadal steroids, 132

SKIN THERMOMETRY, correlation with oscillography and plethysmography, 340

SOMATIC and autonomic responses to bladder filling in patients with complete transverse myelopathy, 450

SOVIET UNION, bioelectric upper extremity prosthesis, 232
 . . . spas, 62

SPASTICITY effect of intramuscular Diazepam, 781
 . . . and rigidity, local hypothermia of spinal cord for relief, 169

SPECIALIZATION and the physiatrist, 765

SPINAE ERECTOR MUSCLES, motor root level determination, 9

SPINAL CORD DISORDERS,

. . . assisted cough in quadriplegia, 705
 . . . back exercises, electromyographic analysis, 730
 . . . bladder filling, responses to, 450
 . . . caloric cost of activity, 427
 . . . civilian trauma, death and survival, 457
 . . . follow-up, 793
 . . . functional independence in quadriplegia, 378
 . . . hypotension, orthostatic, carbon dioxide inhalation, 422
 . . . hypotension, orthostatic, endocrine response, 412
 . . . introduction to special issue, 377
 . . . psychologic adjustment, 72
 . . . pulmonary embolism, 444
 . . . reappraisal of braces and aids, 393
 . . . renal function, 406
 . . . sexual adjustment, 245
 . . . sweating reflex, 464

SPLINT for carpal tunnel syndrome, 84
 . . . for rheumatoid hand, 262
 . . . for shoulder abduction, 310

SPONDYLITIS, ANKYLOSING, therapeutic recreation, 77

STATUS IN COMMUNITY of discharged rehabilitation patients, 670

STIMULATION double simultaneous, improvement of perception in hemiplegic, 681
 . . . electrical to induce emission of sperm, 436

SURVEY OF SELECTED LITERATURE, 41, 92, 219, 271, 320, 369, 494, 595, 639, 689, 757, 801

SYNDROME carpal tunnel, splint for, 84
 . . . low-back, sexual impotence in, 715
 . . . pseudo carpal tunnel, 306
 . . . tarsal tunnel, 776

SYSTEMS, ENZYME, muscular, genetic variations in, 147

T

- TARSAL tunnel syndrome, electrodiagnosis, 776
- TEACHING,
 . . . graduate training in PM&R, cross-cultural evaluation, 621
 . . . institutes for undergraduate programs in PM&R, 225
 . . . undergraduate programs in American medical colleges, 227
- TEMPERATURE distributions in the human thigh produced by infrared, hot pack and microwave applications, 291
- TENSION-LENGTH relationship, passive of intact muscle, epimysium and tendon in normal and denervated rat gastrocnemius, 612
- THERAPEUTIC RECREATION for patient with ankylosing spondylitis, 77
- THERMOMETRY, skin, correlations with oscillometry and plethysmography, 340
- TISSUE, CONNECTIVE, rationale for prolonged stretching for correction of shortening, 345
- TOMORROW is not yesterday, 3
- TONE, hypotonia and hypertonia, of normal muscle, 156
- TRACER, contour, 312
- TRACTION, CERVICAL, intermittent, effect of duration in vertebral separation, 353
- TRAUMA, spinal cord, life expectancy, survival rates and causes of death in civilian patients, 457
- TUNNEL SYNDROMES,
 . . . carpal, 84
 . . . pseudo-carpal, 306
 . . . trasal, 776

U

- ULCERS decubital, an effective method of prevention, 724
- ULNAR NERVE, localization of compression in hand and arm, 325
 . . . motor conduction velocity, effect of physical agents, 787
 . . . and median nerve, sensory and motor conduction velocities, 511

- ULTRASOUND, selection heating effects in human beings, 331
- UNDERGRADUATE TEACHING programs in rehabilitation medicine in American medical colleges, 227
 . . . institutes for programs in PM&R, 225
- UNION, SOVIET, spas in, 62
- UNITED STATES and foreign residents, cross-cultural evaluation of graduate training in PM&R, 621
- UPPER EXTREMITY bioelectric (Soviet) prosthesis, 232
 . . . restoration of function by external power, 182
- UREMIA, motor nerve conduction velocity in, 647
- URINAL for women with severe bilateral limitation of hip movement, 87

V

- VARIATIONS, GENETIC in muscular enzyme systems, 147
- VASCULAR BASIS for pain due to cold, 300
- VELOCITIES (see Nerve Conduction Velocities)
- VERTEBRAL SEPARATION, effect of duration of intermittent cervical traction on, 353
- VESICLES, SEMINAL, induced emission of sperm by electrical stimulation, 436
- VOCATIONAL REHABILITATION, follow-up in patients with myelopathy, 793

W

- WHEELCHAIR brake lever, modification, 470
- WOMEN with severe bilateral limitation of hip movement, urinal for, 87
- WORKMEN'S COMPENSATION, medicolegal considerations, 204

X

Y

Z

INDEX TO PAGES

VOLUME 47, January-December, 1966

January	1-44
February	45-96
March	97-224
April	225-274
May	275-324
June	325-374
July	375-498
August	499-596
September	597-646
October	647-696
November	697-762
December	763-814

AUTHOR INDEX

A

Abramson, A. S., 450
 Abramson, D. I., 300
 Adler, E., 67
 Alston, W., 781
 Amick, L. D., 306
 Anastasia, T., 393
 Anderson, T. P., 45, 603
 Andrews, J. M., 238
 Archibald, K. C., 653
 Arje, F. B., 77
 Avedon, E. M., 77

B

Bakst, H. J., 457
 Barnerias, M. J., 705
 Barrie, D. L., 457
 Baum, B. A., 291
 Bengzon, A.R.A., 84
 Bensman, A., 436
 Benton, J. G., 62, 225
 Berryman, D. L., 77
 Boen, J., 406
 Brooke, M. H., 99
 Burk, R. D., 715

C

Calabro, J. J., 77
 Canale, D. J., 306
 Canestrari, R. E., 286
 Carlson, K. E., 781
 Carpendale, M. T., 325
 Carter, R. E., 412
 Cenkovich, F., 199
 Chandler, K. A., 251
 Chiodi, H. P., 422
 Chu, L. S. W., 300
 Chyatte, S. B., 499
 Clarke, K. S., 427
 Clayson, S. J., 255
 Colachis, S. C., Jr., 353
 Cole, R. M., 504
 Corriveau, C., 232

D

Dacso, M. M., 621
 Danowski, T. S., 132
 Darling, R. C., 360
 DeLateur, B. J., 331
 Diamond, M. D., 72, 245
 Dinken, H., 199
 D'Oronzio, G., 450
 Downey, J. A., 422

E

Earl, W. C., 697
 Ebskov, B., 190
 Edwards, M. H., 77
 Ehmer, M. N., 251
 Eichman, P. L., 84
 Engel, W. K., 99
 Engen, T. J., 182
 Erdman, W. J., II, 47, 750

F

Fenderson, D. A., 227
 Feuer, S. G., 275
 Fink, S. L., 56
 Fliegel, O., 275
 Fordyce, W. E., 676
 Forster, S., 62
 Fountain, F. P., 665
 Freed, M. M., 457

G

Gardner, G. W., 24
 Gassler, S., 393
 Gersten, J. W., 199
 Gingras, G., 232
 Goldberg, M. J., 340
 Goldman, H., 681
 Good, R., 1
 Gough, J. G., 9
 Grabinski, B., 17
 Gratzner, M., 17
 Grotz, R. C., 51
 Grynbaum, B. B., 204, 393
 Guyton, J. D., 771

H

Hagstrom, J. W. C., 653
 Halberstam, J. L., 621
 Halpern, D., 659
 Harris, D. H., 511
 Hayashi, K., 464
 Hieber, M. E., 470
 Honet, J. C., 647
 Houser, H. B., 56
 Howard, F. M. Jr., 137
 Hutchison, J., 232

I

Inman, V. T., 765

J

Jebsen, R. H., 12, 470, 597, 647
 Johnson, E. W., 511, 715, 776
 Johnston, V. C., 291
 Jones, R. H., 676

K

Kaplan, L. I., 393
 Kelman, H. R., 670
 Kirby, N. A., 705
 Kirk, N. L., 291
 Koepke, G. H., 9
 Kosiak, M., 724
 Kottke, F. J., 255, 345, 406, 436
 Krout, R. M., 603
 Kubicek, W. G., 340, 406

L

LaBan, M. M., 715
 LaFratta, C. W., 286
 Lee, S. W., 300
 Lehmann, J. F., 291, 331
 Lehneis, H. R., 310
 Lemmi, H., 306
 Leslie, L., 711

Liberson, W. T., 17
Lippay, A. L., 232
Lippmann, H. I., 450
Lipscomb, H. S., 412
Long, C., II, 51, 190, 699
Lorry, W., 204
Lowenthal, M., 670
Lowry, R., 742
Luskin, R., 520

M

Mackay, D. E., 378
Machover, S., 737
Maloney, P. K., Jr., 360
Marchand, J. F., 147
Marshall, F. E., 204
McDonald, J. R., 647
Meelhuysen, F. E., 659
Melvin, J. L., 511
Miller, B., 199
Miller, J. M., III, 422
Minear, W. L., 665
Mongeau, M., 232
Muller, J. N., 670
Mundale, M. O., 255

N

Nattress, L. W., Jr., 362
Negrin, J., Jr., 169
Newman, L. B., 312
Newman, M. K., 204
Norcross, K., 87

O

Olson, M. E., 406
Ortiz, P. R., 776

P

Panzarella, J. J., 310
Pauley, D. L., 345
Pauly, J. E., 730
Pearson, C. M., 122
Perlstein, M. A., 504
Price, M., 406
Ptak, R. A., 345

R

Rae, J. W., Jr., 1
Reiser, M., 406
Richardson, G., 300
Rose, D. L., 444

Rosenthal, A. M., 793
Roussan, M. S., 450
Rudolph, H. L., 97
Rusk, H. A., 3, 393
Rutherford, D. R., 504

S

Sapecky, A. J., 737
Schwartz, R. A., 653
Scott, R. N., 174
Shapiro, E. D., 204
Sherman, E. D., 232
Shull, J. R., 444
Shy, G. M., 126
Skowlund, H. V., 340
Siebens, A. A., 705
Silverman, D. R., 291, 331
Simons, B. C., 470
Spence, W. R., 771
Steele, R. W., 730
Stewart, W. H., 377
Stillwell, G. K., 763
Stolov, W. C., 156, 612
Stow, R. W., 31
Strohm, B. R., 353
Symington, D. C., 378

T

Tal, E., 67
Tenckhoff, H. A., 647
Tobin, J. A., 406
Tuck, S., Jr., 300

U

Ullman, D. L., 204

V

Vallbona, C., 412
VanBrocklin, J. D., 262
Vignos, P. J., Jr., 499

W

Watkins, M., 499
Weilepp, T. G., Jr., 612
Weiss, A. J., 72, 245
Wing, H., 204

Z

Zalis, A., 17
Zankel, H. T., 787

INDEX TO ADVERTISERS

1966

American Wheel Chair
Division of Institutional Industries, Inc.
 5500 Muddy Creek Road
 Cincinnati, Ohio 45238.....Mar., Aug., Oct., Dec.

The Birtcher Corporation
 4371 Valley Boulevard
 Los Angeles, California 90032.....Feb., Mar., Apr.,
 May, June, July, Aug.

The Burdick Corporation
 Milton, Wisconsin 53563...Jan., Feb., Mar., Apr.,
 May, June, July, Aug.,
 Sept., Oct., Nov., Dec.

S. H. Camp & Company
 109 West Washington
 Jackson, Michigan 49204.....Feb., Mar., May,
 July, Sept., Nov.

Chattanooga Pharmacal Co., Inc.
 2400 Dayton Boulevard
 Chattanooga, Tennessee...Jan., Feb., Mar., Apr.,
 May, June, July, Aug.,
 Sept., Oct., Nov., Dec.

Everest & Jennings, Inc.
 1803 Pontius Avenue
 Los Angeles, California 90025....Jan., Mar., May,
 July, Sept., Nov.

Fli-Back Sales Corporation
 P.O. Box 427
 High Point, North Carolina.....Apr., May, June,
 July, Aug., Sept.

Guardian Chemical Corporation
 41-45 Crescent Street
 Long Island City, New York.....Jan., Mar., July,
 Sept., Dec.

J. E. Hanger, Inc.
 221-223 G. Street, N.W.
 Washington, D.C. 20013.....Jan., Apr., May,
 July, Sept., Nov.

Ille Electric Corporation
 Reach Road
 Williamsport, Pennsylvania 17701.....Jan., Mar.,
 May, July, Sept., Nov.

Jobst
 Box 653
 Toledo, Ohio 43601.....Oct., Nov.

Johnson & Johnson
 4949 West 65th Street
 Chicago, Illinois 60638.....Apr., May

LaBerne Manufacturing Company
 P.O. Box 5245
 Columbia, South Carolina.....Jan., Feb., Mar.,
 Apr., May, June, July, Aug.,
 Sept., Oct., Nov., Dec.

Fred Landauer Co., Ltd.
Division of Elco
 P.O. Box 386
 Rockville Centre, New York 11570.....Mar.

Leverage Hand-Brake Company
 Box 853
 Fargo, North Dakota.....Feb., Mar., Apr., May,
 June, July, Oct., Dec.

Lumex, Inc.
 Bay Shore, New York.....Feb., Apr., May,
 July, Sept., Nov.

Medco Products Co., Inc.
 3601 East Admiral Pl.
 Tulsa, Oklahoma 74150.....Jan., Feb., Mar.,
 Apr., May, June, July, Aug.,
 Sept., Oct., Nov., Dec.

Medical Instrument Company
 1128 N. Las Palmas Avenue
 Los Angeles, California 90038.....July, Dec.

Medical Products Division
3M Company
 St. Paul, Minnesota 55119.....July

Meditron
A Division of Crescent Engineering & Research Co.
 5440 North Peck Road
 El Monte, California.....June, July, Aug., Oct.

J. A. Preston Corporation
 71 Fifth Avenue
 New York, New York 10003.....Jan., Feb., Mar.,
 Apr., May, June, July,
 Aug., Sept., Oct., Nov., Dec.

Ritter Equipment Company
A Division of Ritter Corporation
 Rochester, New York 14603.....Jan., Mar., Aug.

Roche Laboratories
Division of Hoffmann-La Roche, Inc.
 Nutley, New Jersey 07110..May, June, July, Aug.,
 Sept., Oct., Nov., Dec.

Stainless Specialties, Inc.
 1604 Monrovia Avenue
 Newport Beach, California 92660.....July, Aug.,
 Sept., Oct., Nov., Dec.

Stryker Corporation
 Kalamazoo, Michigan.....Mar., Apr., June,
 July, Oct.

Teca Corporation
 220 Ferris Avenue
 White Plains, New York 10603.....Aug., Sept.,
 Oct., Nov., Dec.

Technicon Cybex
 Ardsley (Chauncey), New York 10502.....July

Tru-Eze Manufacturing Co., Inc.
 P.O. Box 855
 Burbank, California.....Jan., Feb., Mar., Apr.,
 May, June, July, Aug., Sept., Oct.

